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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,667	03/10/2006	Taisuke Matsumoto	MAT-8703US	4670
23122	7590	12/23/2009		
RATNERPRESTIA			EXAMINER	
P.O. BOX 980			NOORISTANY, SULAIMAN	
VALLEY FORGE, PA 19482				
		ART UNIT	PAPER NUMBER	
		2446		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action
Before the Filing of an Appeal Brief

Application No.

10/539,667

Applicant(s)

MATSUMOTO ET AL.

Examiner

SULAIMAN NOORISTANY

Art Unit

2446

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 15 October 2009 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: _____.
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
see continuation.
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____.
13. ☐ Other: _____.

/Jeffrey Pwu/
Supervisory Patent Examiner, Art Unit 2446

/S. N./
Examiner, Art Unit 2446

Applicant Arguments:

Lamberton does not disclose the user of master router and backup routers. In addition, other references cited by the Examiner do disclose the use of a master router and backup routers. Thus, it is improper to combine Lamberton (no disclosure of master/backup routers) with the other references of record (disclosure of master/backup routers).

Examiner Response:

Lamberton discloses in Fig. 2, wherein the figure shows a configuration with two virtual routers [220] and [230] with the hosts splitting their traffic between them. In the above configuration, half of the hosts, i.e.: hosts [211] and [212], install a default route [240] to virtual router [220] having IP address [IP A] and the other half of the hosts i.e.: hosts [213] and [214], install a default route [250] to virtual router [230] having IP address [IP B]. This has the effect of load balancing somehow the outgoing traffic, while also providing full redundancy because if router [220] is the master for two of the hosts [211] and [212] VRRP protocol allows it to be also a back up for the other two hosts [213] and [214]. And the reverse is true for router [230]. Then, on contrary of the previous example, in normal operation the two routers are active and forward IP traffic contributing to achieve overall better performance for the LAN. Should one of the router fail the one remaining will have to bear the whole traffic until situation soon returns to normal. Thus, the customers on the LAN are most of the time benefiting of the performance of the two routers working in concert.

Shigehashi further discloses that said plural routers form one virtual router, which is handled as a router having one IP address from the node of the transmitter. Therefore, no matter which router VRRP selects, the packets from the node of the transmitter are always transmitted with respect to one IP address. For VRRP, hello packet is exchanged at a certain interval between the routers to check whether each router is in the normal state – [0004]. This is known as health check. Also, the priority of the router that sends the hello packet is included in said hello packet. Each router compares said priority with its own priority to determine which router is the active router (master router) that should process the packets. In other words, the router with the highest priority is automatically set as the active router, while other routers are used as standby routers (backup routers) – [0005]. The router set as the master router represents a group of routers defined as one virtual router to process the received packets. If the master router is unable to carry out communication due to trouble or other reason, other backup routers will detect that the master router does not respond to the hello packet. Among the backup routers, the one with the highest priority is set to the next master router having the same IP address as said master router – [0006].

Kuo further discloses in Fig. 2, sitting between the VSRP aware switches 210, 212, and 214 and the network core 220 are a series of VSRP switches 204, 206 and 208. As is explained herein, each of the VSRP switches 204, 206 and 208 communicates with other VSRP switches according to the VSRP protocol. Communication according to the protocol allows devices in a virtual switch to determine whether it should set itself to master mode, backup mode, or an intermediary mode described below, for the group of supported devices, thereby providing failure redundancy and avoiding network loops. The VSRP switches 204, 206 and 208 are configured as one virtual switch 202, providing redundant routes to the network core 220 in the event that the current VSRP master switch 204 within the virtual switch 202 becomes inoperative, e.g., not the optimal switch to be acting as master for a given virtual circuit 202.

In addition, as is explained in greater detail herein, a priority value determines whether a VSRP device is in master or backup mode. One of the factors in determining priority value is the number of connections the VSRP device has vis-a-vis other VSRP devices comprising the same virtual switch. FIG. 3 presets a situation where the VSRP device currently in master mode 304 has lost communication 314 with a VSRP aware switch 310 located on the far side of an intermediate hub 308, which is an unmanaged device. According to the present invention, detailed knowledge of the overall network is not required, only knowledge that the VSRP aware switches being backed up are symmetrically connected to the VSRP switches comprising the virtual switch. Knowledge at each VSRP switch comprising the virtual switch that a "live" connection exists to every immediate supported neighbor (here, a VSRP aware switch) is necessary in order to provide failover when an outage occurs (col. 6, lines 26 – col. 7, lines 16). Therefore, examiner maintains the rejection.